

Claims

1. Antenna pane comprising at least one glass pane (1) and at least one electrically conductive coating (3) which is subdivided by barrier lines (4) into a number of electrically isolated segments on which antenna pane the coating (3) incorporates at least one strip-like segmented surface portion (5) in which the distance between the barrier lines (4) is so small that the coating there can transmit HF radiation in a specified frequency range, characterised in that the segmented surface portion (5) is by contacting in the contact areas (7) at its two longitudinal sides (6) and by its outer dimensions constructed as a slot antenna for electromagnetic radiation in the range of frequencies which the segmented surface portion (5) can transmit.
2. Antenna pane in accordance with claim 1, characterised in that the barrier lines (4) within the segmented surface portion (5) form a linear or lattice raster with a constant raster unit size.
3. Antenna pane in accordance with claim 1, characterised in that the barrier lines (4) within the segmented surface portion (5) form a raster with a variable raster unit size, variable barrier line width or variable raster form.
4. Antenna pane in accordance with one of the foregoing claims, characterised in that the barrier lines (4) within the segmented surface portion (5) have at least partly a non-rectilinear, and particularly an undulating, curved, zigzagged or fractal form.
5. Antenna pane in accordance with one of the foregoing claims, characterised in that the segmented surface portion (5) is constructed as a slot antenna for the VHF range.
6. Antenna pane in accordance with claim 5, characterised in that in a part (13) of the segmented surface portion (5) a raster which can transmit frequencies above the VHF range and is finer than in other areas of the segmented surface portion (5) is provided for and in that at least one antenna (14) for frequencies above the VHF range is arranged in this part (13).

7. Antenna pane in accordance with one of the foregoing claims, characterised in that the segmented surface portion (5) in the area in which it is contacted as a slot antenna incorporates a constriction (12) which reduces the width of the segmented surface portion (5).
8. Antenna pane in accordance with claim 7, characterised in that the constriction (12) comprises a strip-like portion of the coating (3) which strip-like portion projects into the segmented surface portion (5) and is constructed as an antenna (14) for a frequency range above the reception range of the slot antenna.
9. Antenna pane in accordance with one of the foregoing claims, characterised in that the coating (3) incorporates a heatable area (15) electrically isolated from the area of the coating (3) adjacent to the segmented surface portion (5) by at least one barrier line (4) and provided with bus bars (16).
10. Antenna pane in accordance with claim 9, characterised in that the heatable area (15) is provided with barrier lines (4) influencing the distribution of the heating current.
11. Antenna pane in accordance with claim 9 or 10, characterised in that the heatable sector (15) is wired as an antenna for the VHF and/or AM range.
12. Antenna pane in accordance with one of the foregoing claims, characterised in that in the coating (3) an AM antenna (18) bounded by barrier lines (4) and with an assigned AM antenna connecting area (19) is provided for.
13. Antenna pane in accordance with one of the foregoing claims, characterised in that the segmented surface portion (5) is surrounded on all sides by the electrically conductive coating (3).